

WHAT THE INVENTION CLAIMED IS:

1. A contact structure comprising:

a fixed contact set, said fixed contact set comprising a stepped cap, said stepped cap having a plurality of annular steps of different diameters, and a
5 plurality of contact rings of different diameters respectively mounted in said annular steps and respectively connected to the conductors of a fixed cable; and

a movable contact set, said movable contact set comprising a stepped shaft rotatably inserted into the stepped cap of said fixed contact set, said stepped shaft having a plurality of steps corresponding to the annular steps of said stepped cap
10 of said fixed contact set and a plurality of peripheral holes respectively formed in the steps, spring means mounted in the peripheral holes in the steps of said stepped shaft, and a plurality of arched contact plates respectively supported on said spring means in said peripheral holes and forced by said spring members into contact with the contact rings of said fixed contact set.

15 2. The contact structure as claimed in claim 1, wherein said stepped shaft comprises pairs of stop flanges respectively suspended in the peripheral holes in the steps thereof; said contact plates of said movable contact set each have two curved locating wings symmetrically disposed at two sides and respectively stopped against the stop flanges in the peripheral holes of the steps of said
20 stepped shaft.

3. The contact structure as claimed in claim 2, wherein said spring means is comprised of a plurality of compression springs respectively mounted on a respective pin in the peripheral holes of the steps of said stepped shaft.

25 4. The contact structure as claimed in claim 1, wherein said contact plates each have an inwardly curved guide flange disposed at a top side for guiding said movable contact set into movable connection with said fixed contact set.

5. The contact structure as claimed in claim 1, wherein said contact rings each have a respective connecting lug respectively inserted through a respective

through hole in the annular steps of said stepped cap and respectively connected to the conductors of a fixed cable.

6. The contact structure as claimed in claim 1, wherein said stepped cap has a plurality of through holes respectively formed in the annular steps thereof; said
5 contact rings each further have a mounting strip respectively inserted through the through holes in the annular steps of said stepped cap, and a retaining portion extended from the respective mounting strip and hooked on the through holes in the annular steps of said stepped cap.

7. The contact structure as claimed in claim 1, wherein said stepped shaft have
10 a plurality of bottom holes in the steps thereof; said contact plates each have a connecting lug respectively inserted through the bottom holes of said stepped shaft and respectively connected to the conductors of a movable cable.

8. The contact structure as claimed in claim 5, wherein the connecting lugs of said contact rings have a mounting hole for the connection of the conductors of
15 said fixed cable.

9. The contact structure as claimed in claim 7, wherein the connecting lugs of said contact plates each have a mounting hole for the connection of the conductors of said movable cable.

10. The contact structure as claimed in claim 1, wherein said fixed contact set
20 is mounted in a holder, said holder comprising a barrel and a first wheel member rotatably supported on said barrel; said movable contact set is mounted in a second wheel member fastened to said first wheel member of said holder, said first wheel member and said second wheel member forming a bobbin for the winding of said movable cable.

25 11. The contact structure as claimed in claim 10, wherein said first wheel member has a plurality of mounting holes and locating blocks alternatively arranged around a center through hole thereof; said second wheel member has a

plurality of mounting blocks and mounting holes alternatively arranged around a center through hole thereof and respectively fastened to the mounting holes and mounting blocks of said first wheel member.